

FIG. 1A

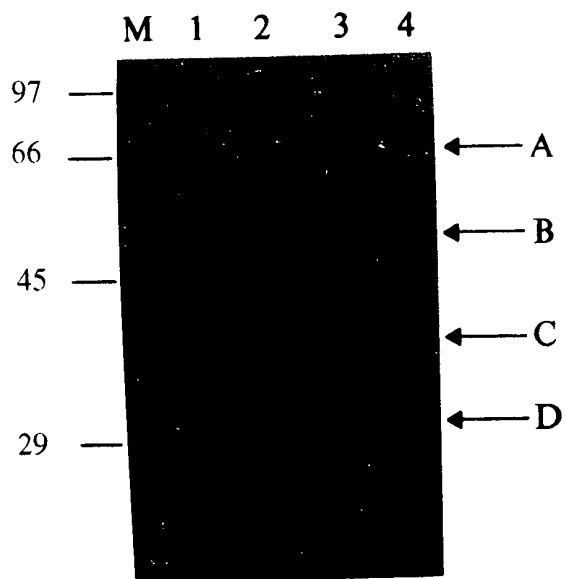


FIG. 1B

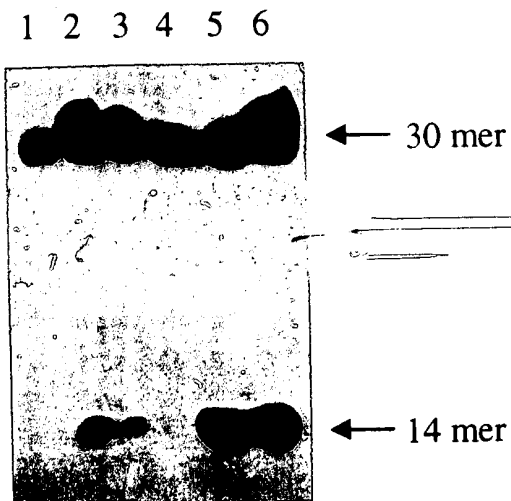


FIG. 1C

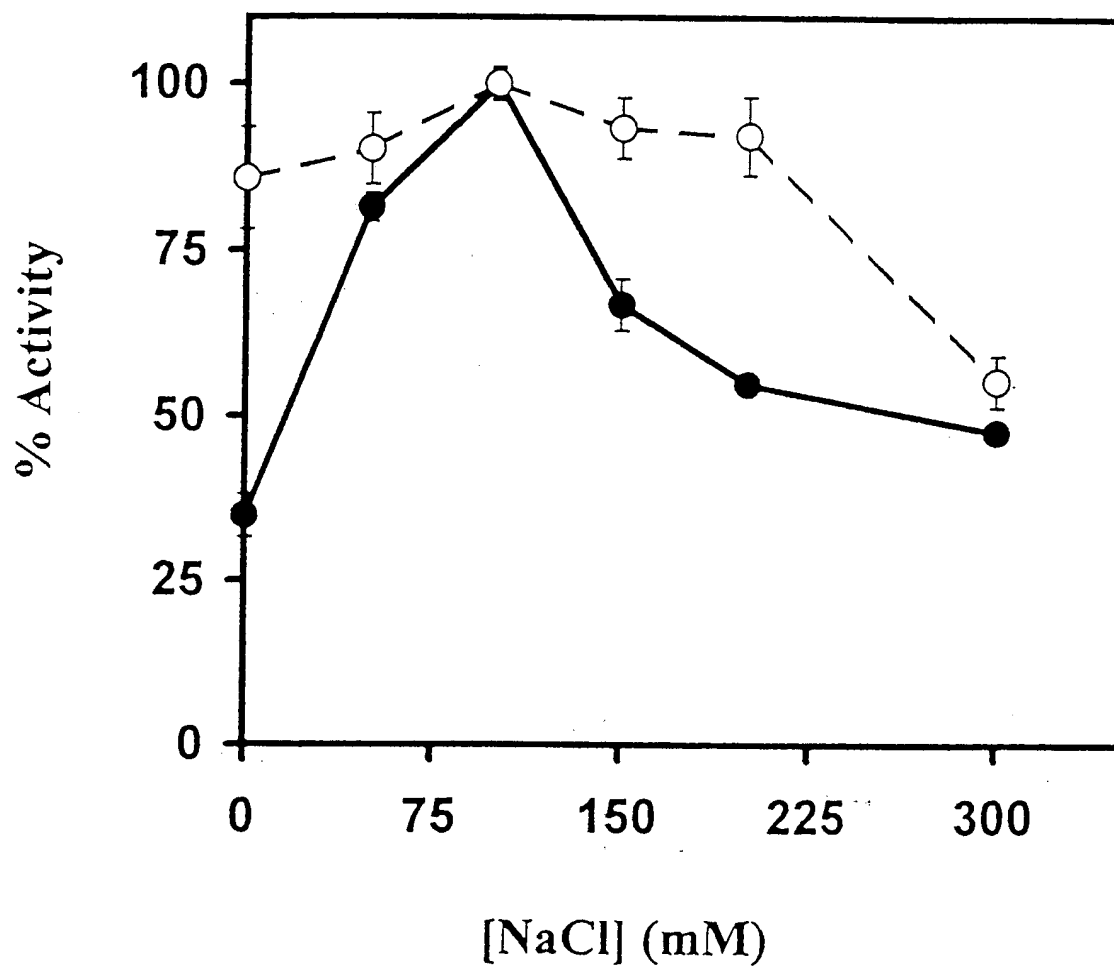


FIG. 2

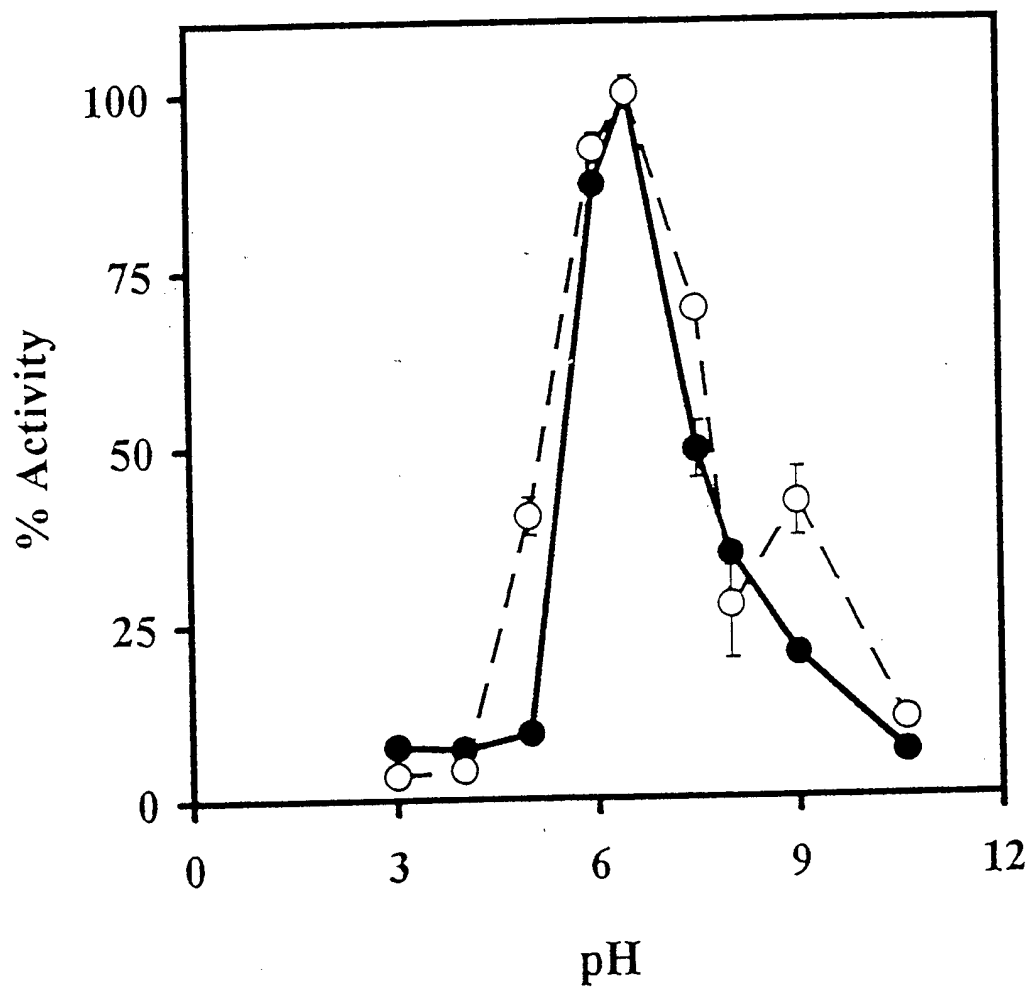


FIG. 3

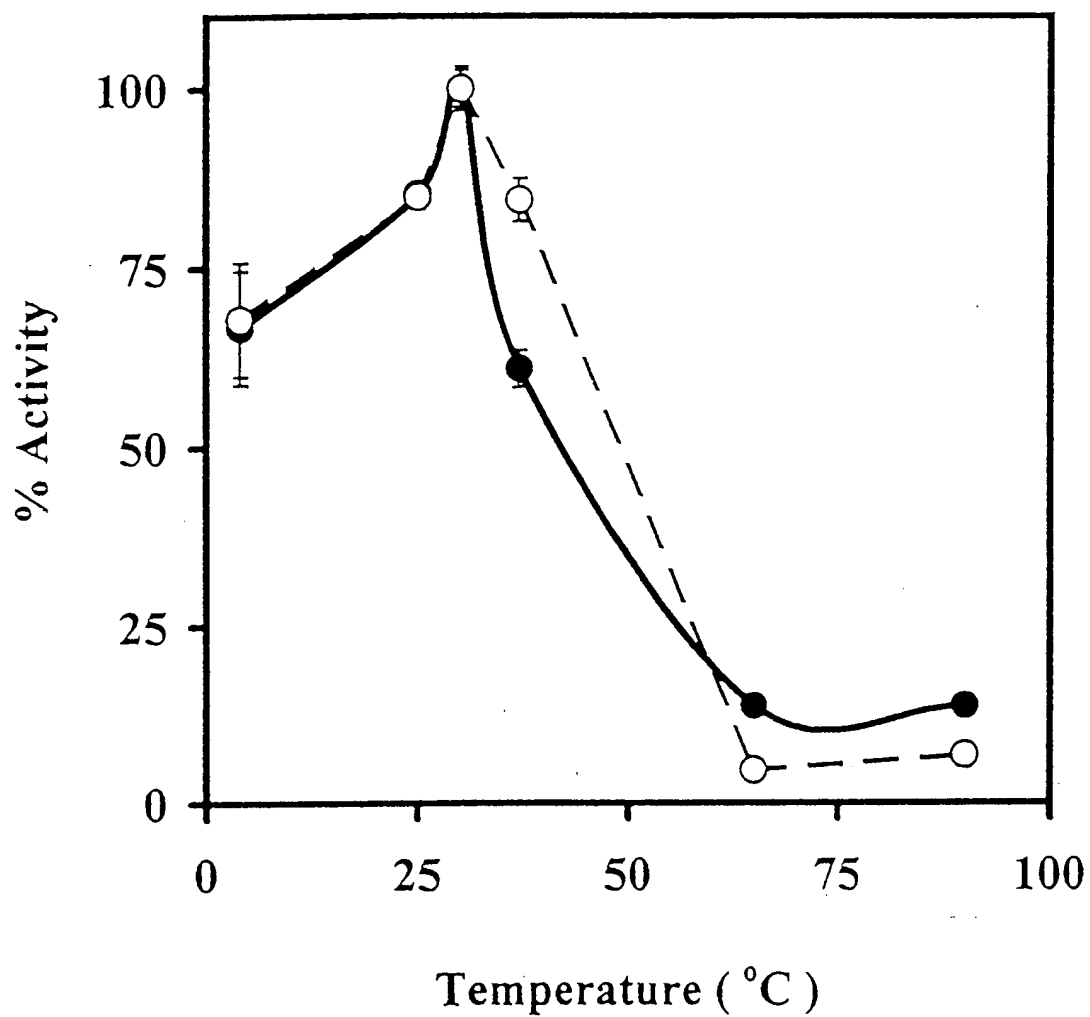


FIG. 4

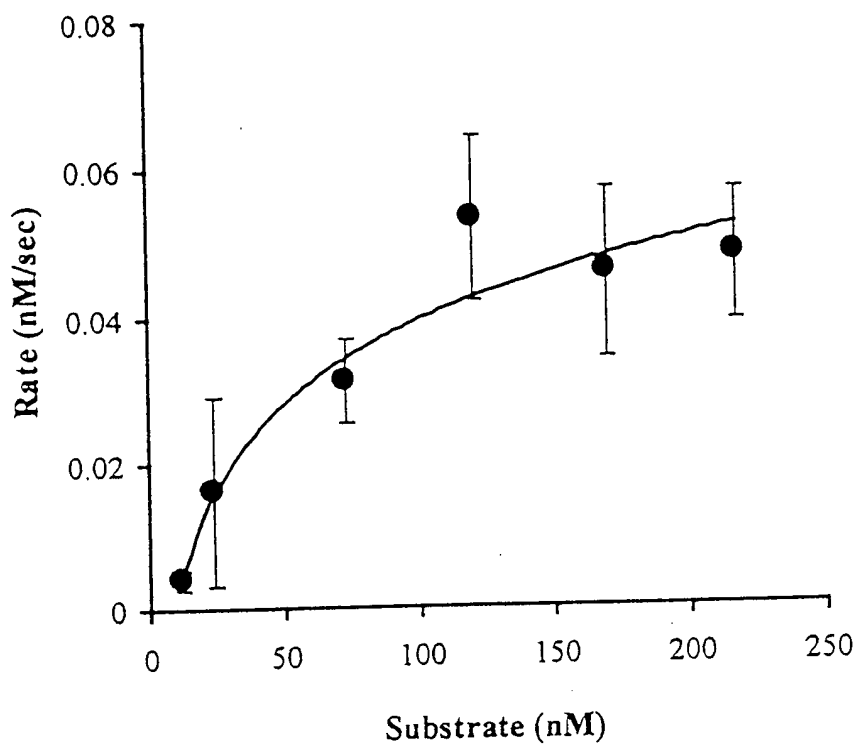


FIG. 5A

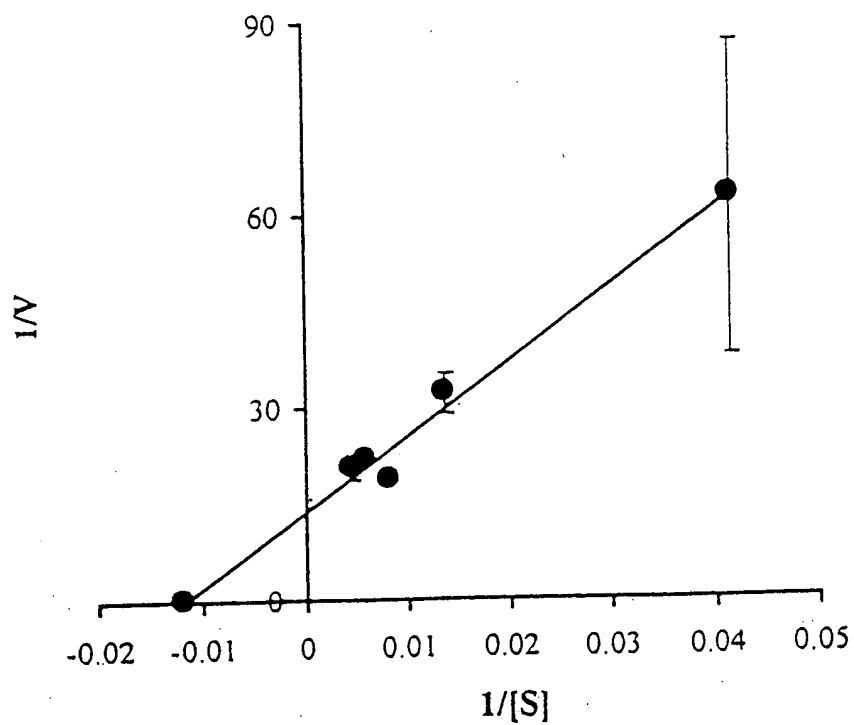


FIG. 5B

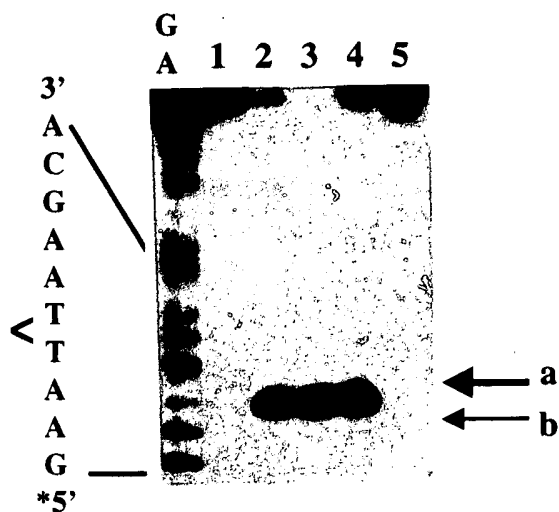
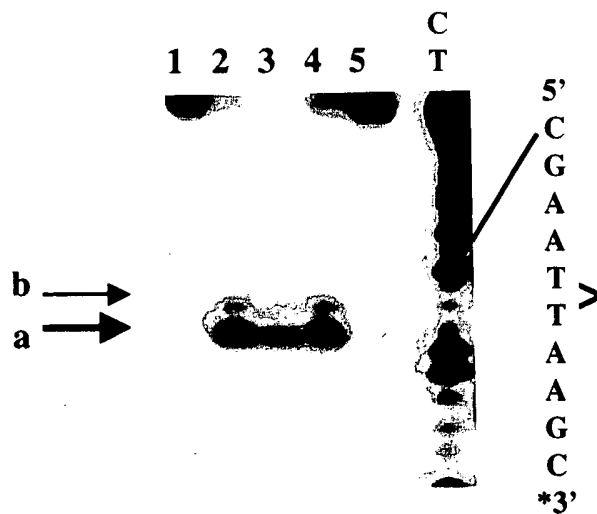


FIG. 6A



b a
↓ ↓
5' ...CTGCACGAAT^TAAGCAATTC... 3'

FIG. 6B

FIG. 7A

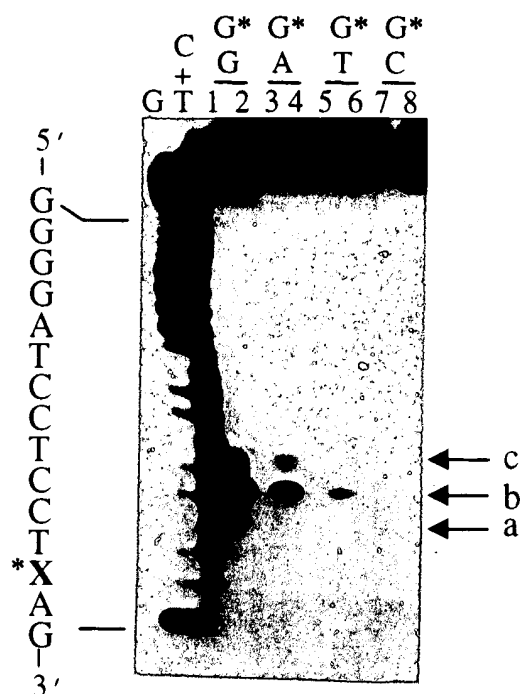


FIG. 7B

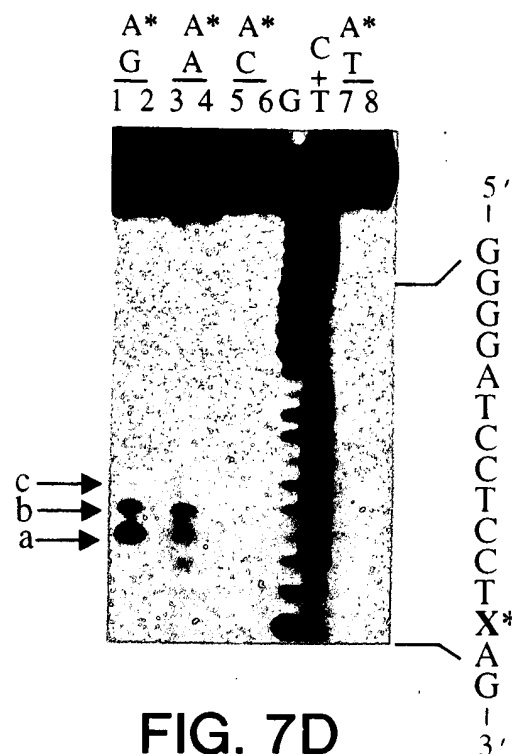


FIG. 7C

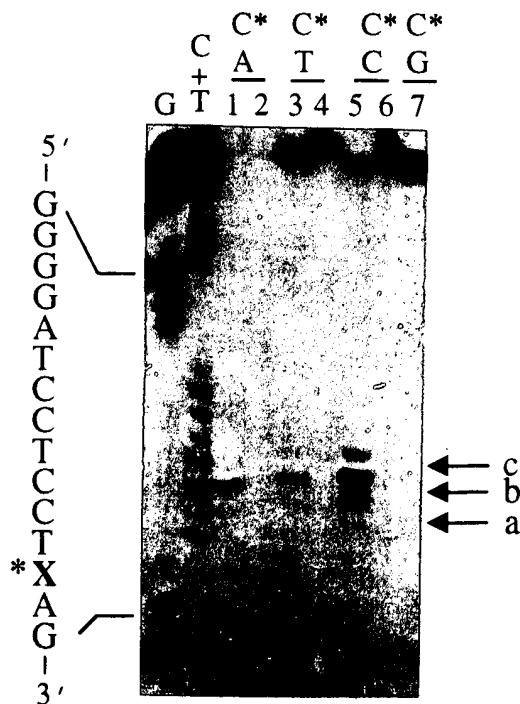
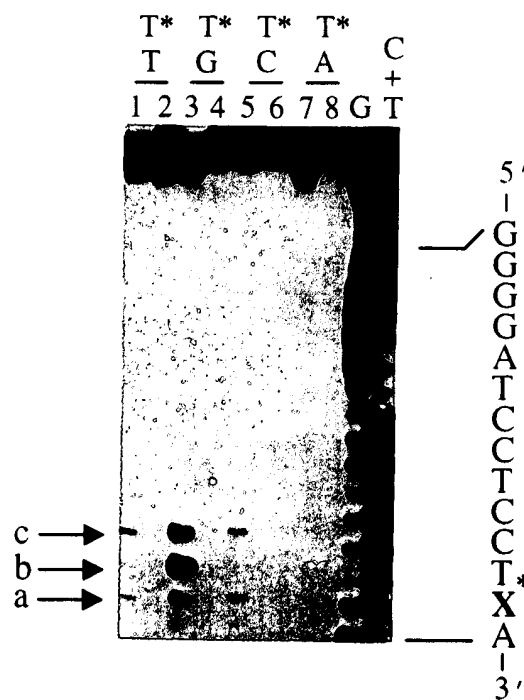


FIG. 7D



$\begin{matrix} & c & b & a \\ & \downarrow & \downarrow & \downarrow \\ 5' & GTACCCGGGGATCCTCCTXAGTCGACCTGCA^* & 3' \\ 3' & CATGGGCCCTAGGAGGAYTCAGCTGGACGT & 5' \end{matrix}$

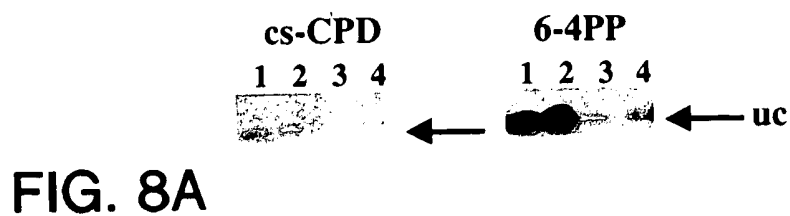


FIG. 8B



FIG. 8D

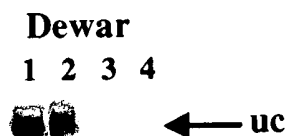
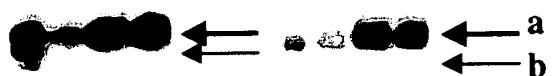


FIG. 8E



b a
↓ ↓
*5'...GCCTGCACGAAT^TAAGCAATTCG...3'

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

US 6,124,200
 Inventors: Doetsch et al.
 Filing Date: November 28, 2000

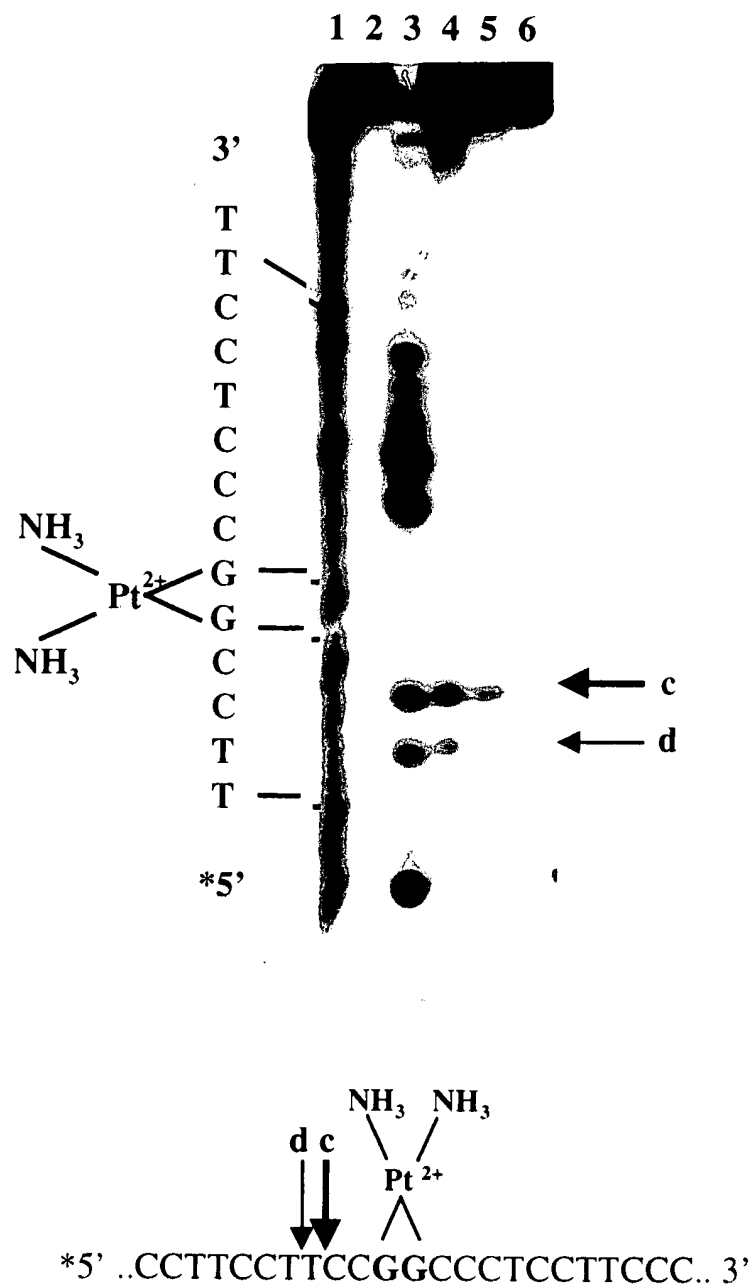


FIG. 9

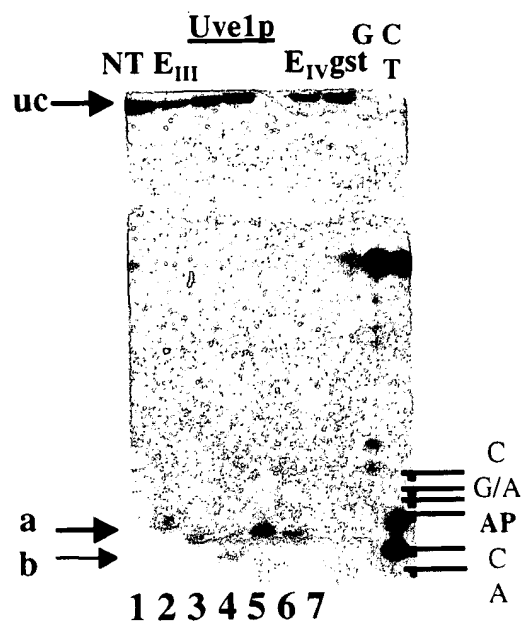
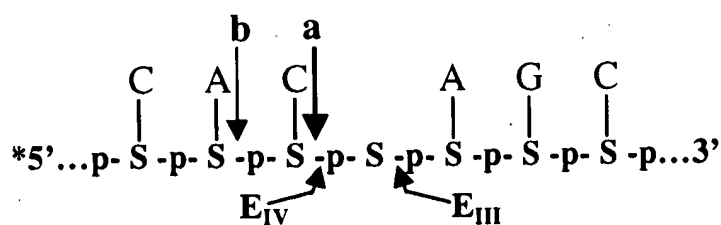
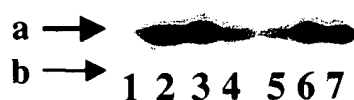


FIG. 10A



FIG. 10B



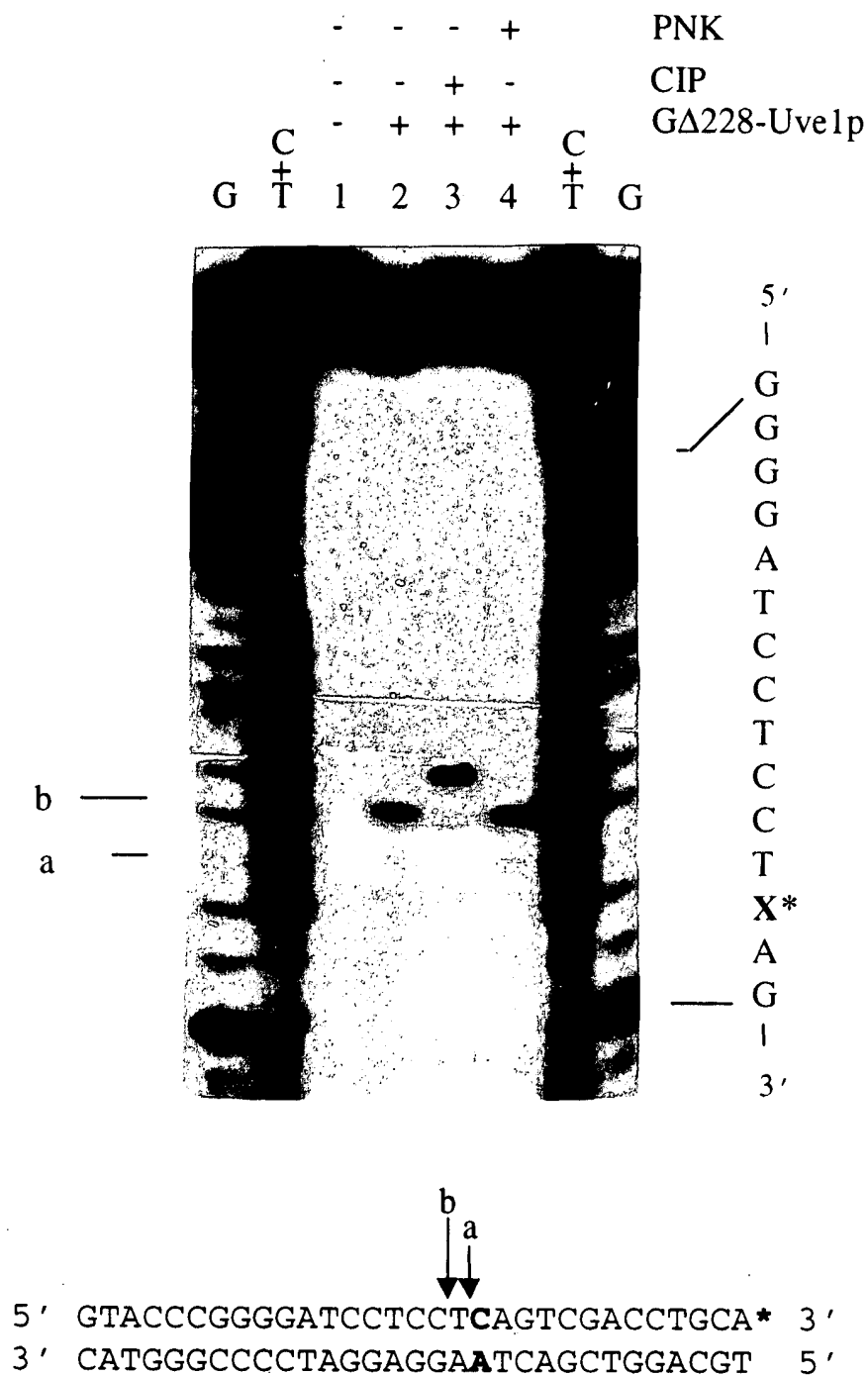
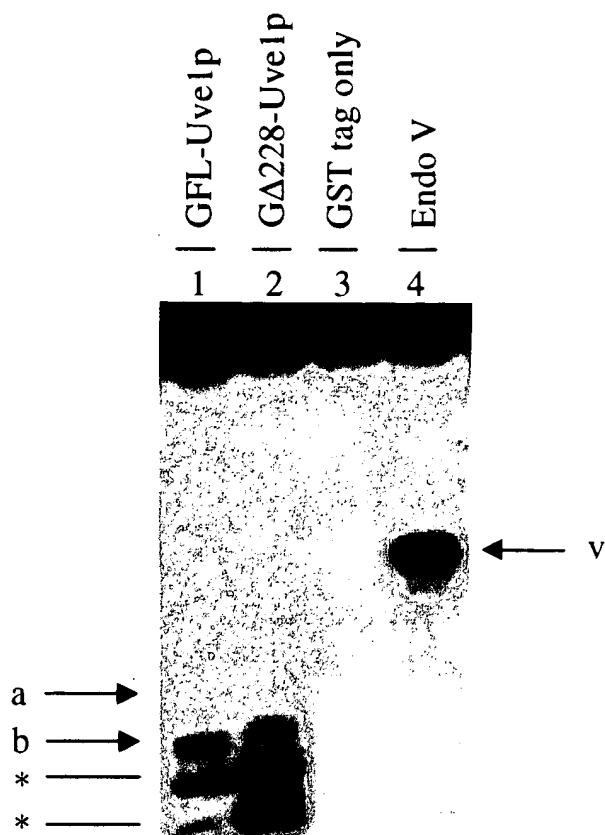


FIG. 11A

APPROVED	CLASS	SUBCLASS
BY		
DRAFTS:MAN		

U.S. Pat. No. 6,317,247,290
 Inventors: Doetsch et al.
 Filing Date: November 28, 2000



** b a v

| | | | ↓

5' *GTACCCGGGGATCCTCCTCAGTCGACCTGCA 3'

3' CATGGGCCCCTAGGAGGAATCAGCTGGACGT 5'

FIG. 11B

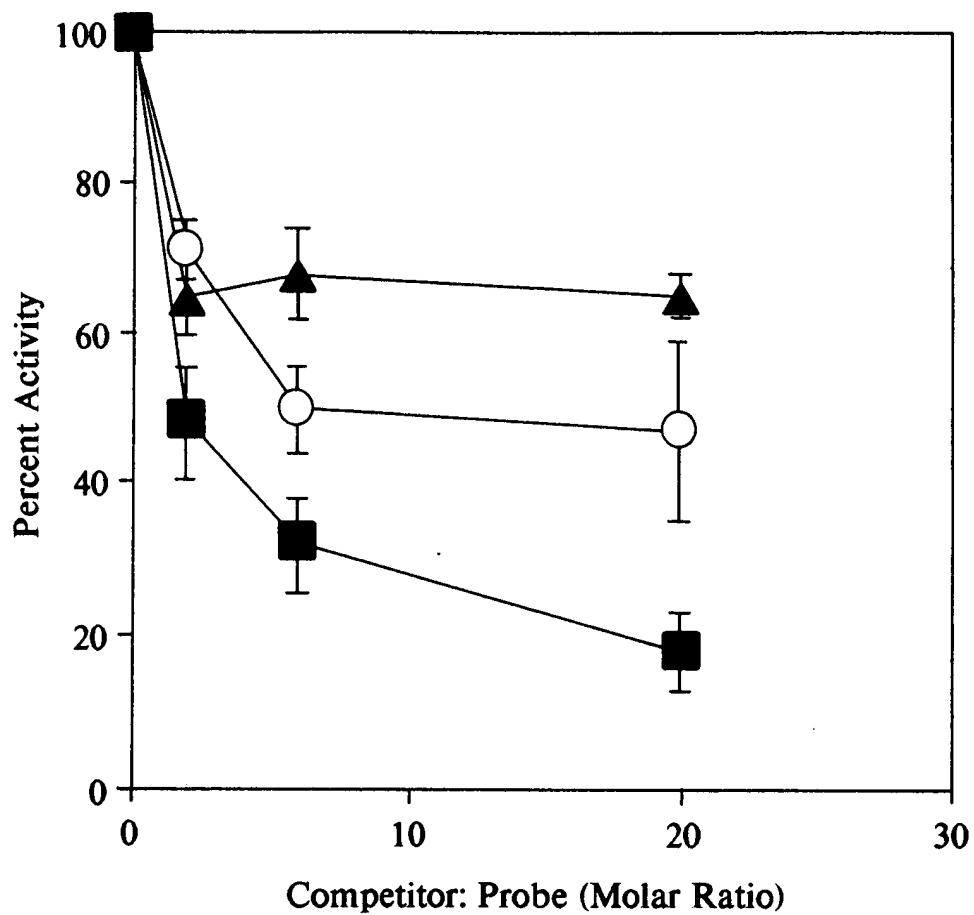


FIG. 12

FIG. 13A

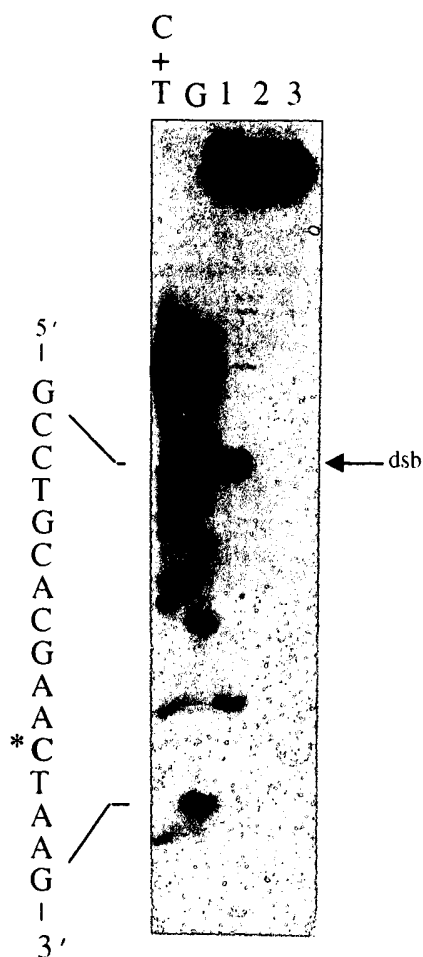


FIG. 13B

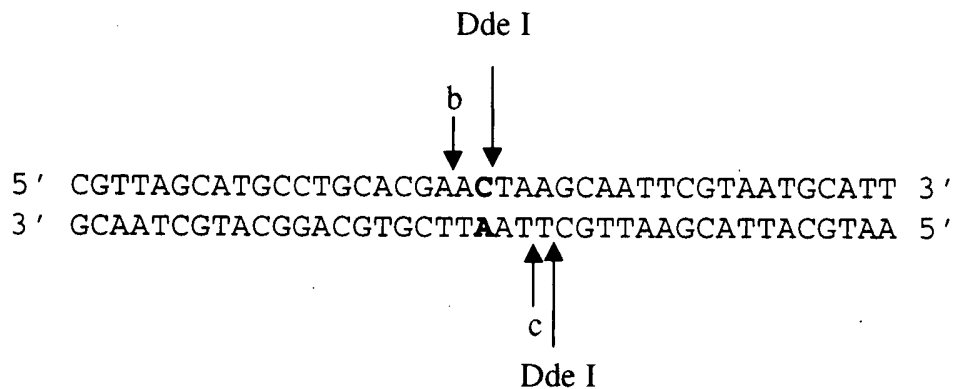
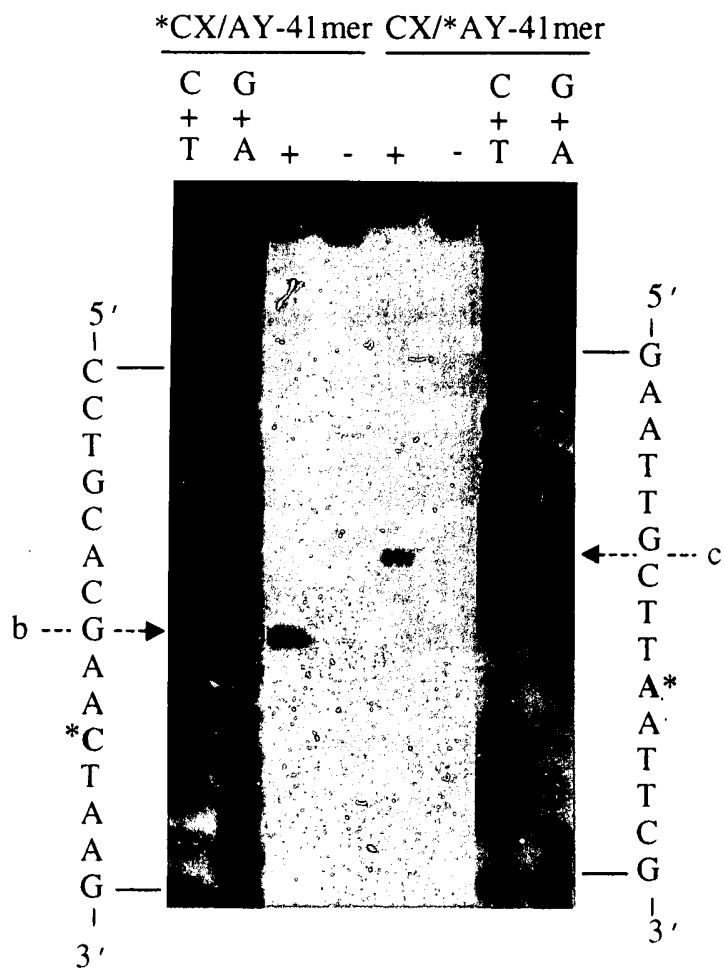


FIG. 14A

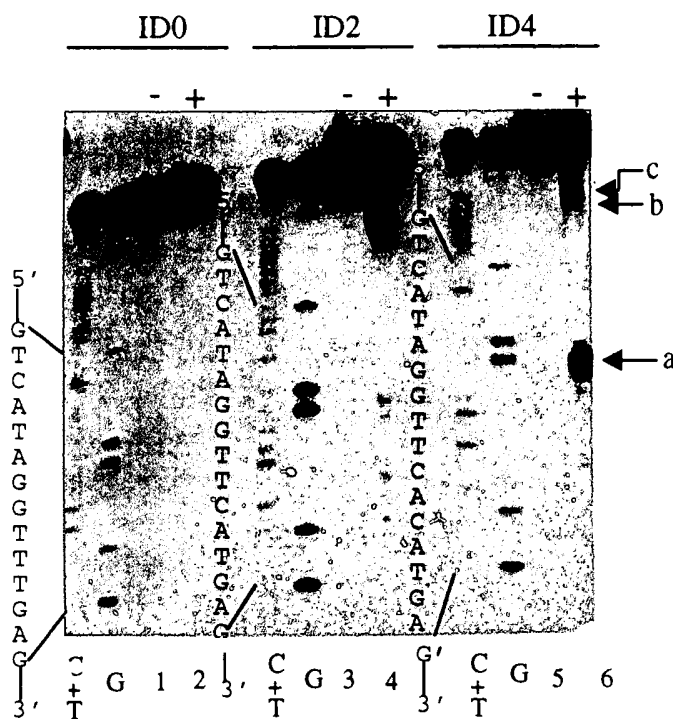
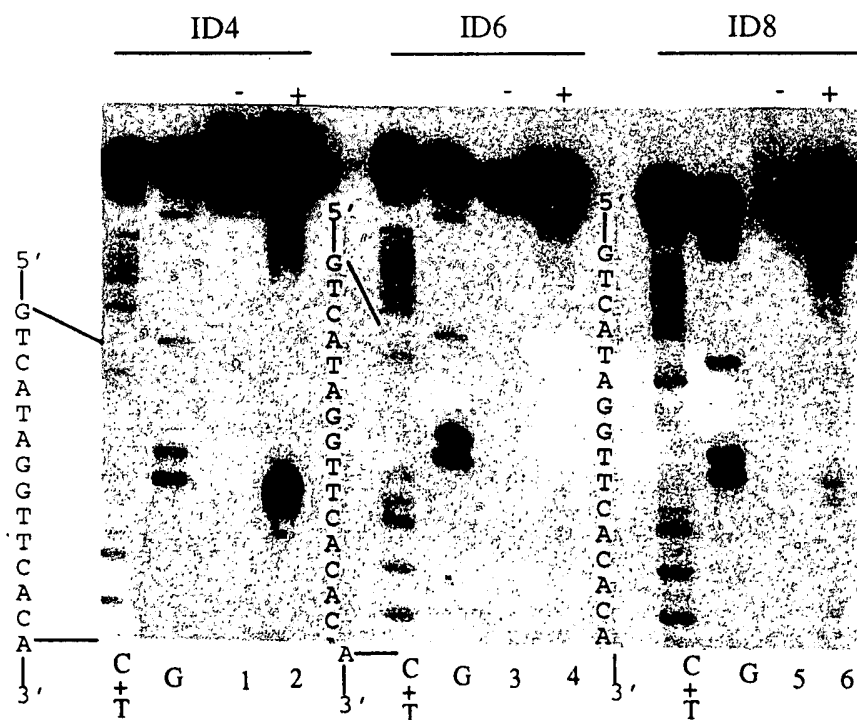
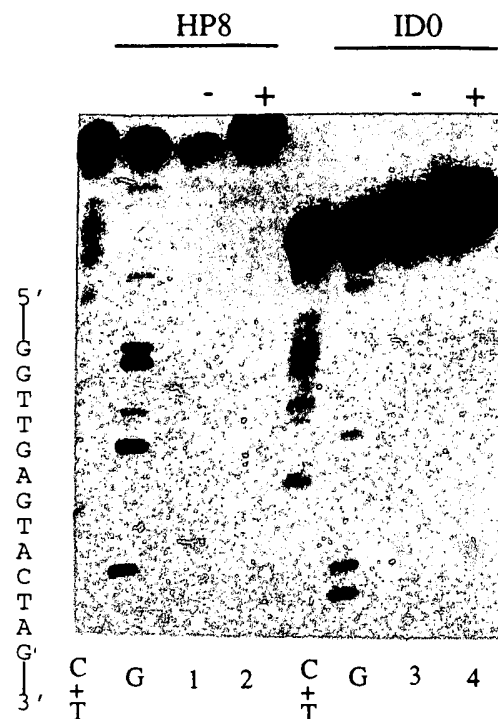


FIG. 14B



5' CACAGACTCCCTCTGTCATAGGTTX^aTGAGTTTATATGGAA* 3'
3' GTGTCTGAGGGAGACAGTATCCAA-ACTCAAATATACCTT 5'

FIG. 14C

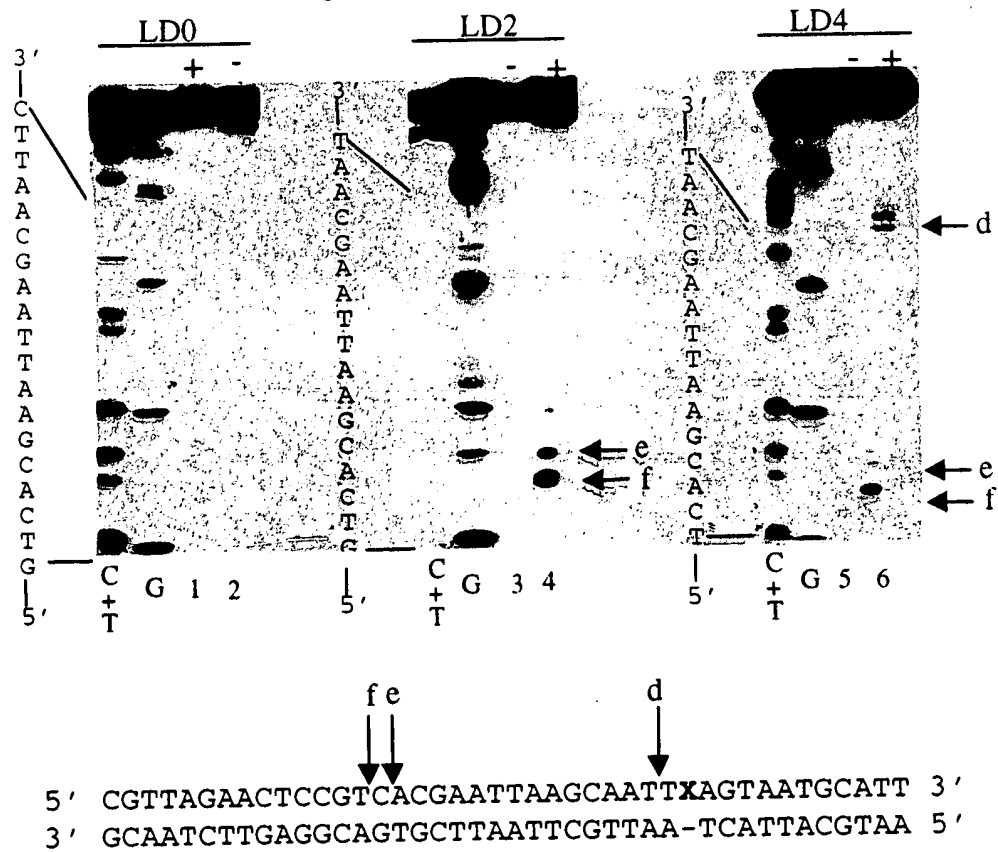
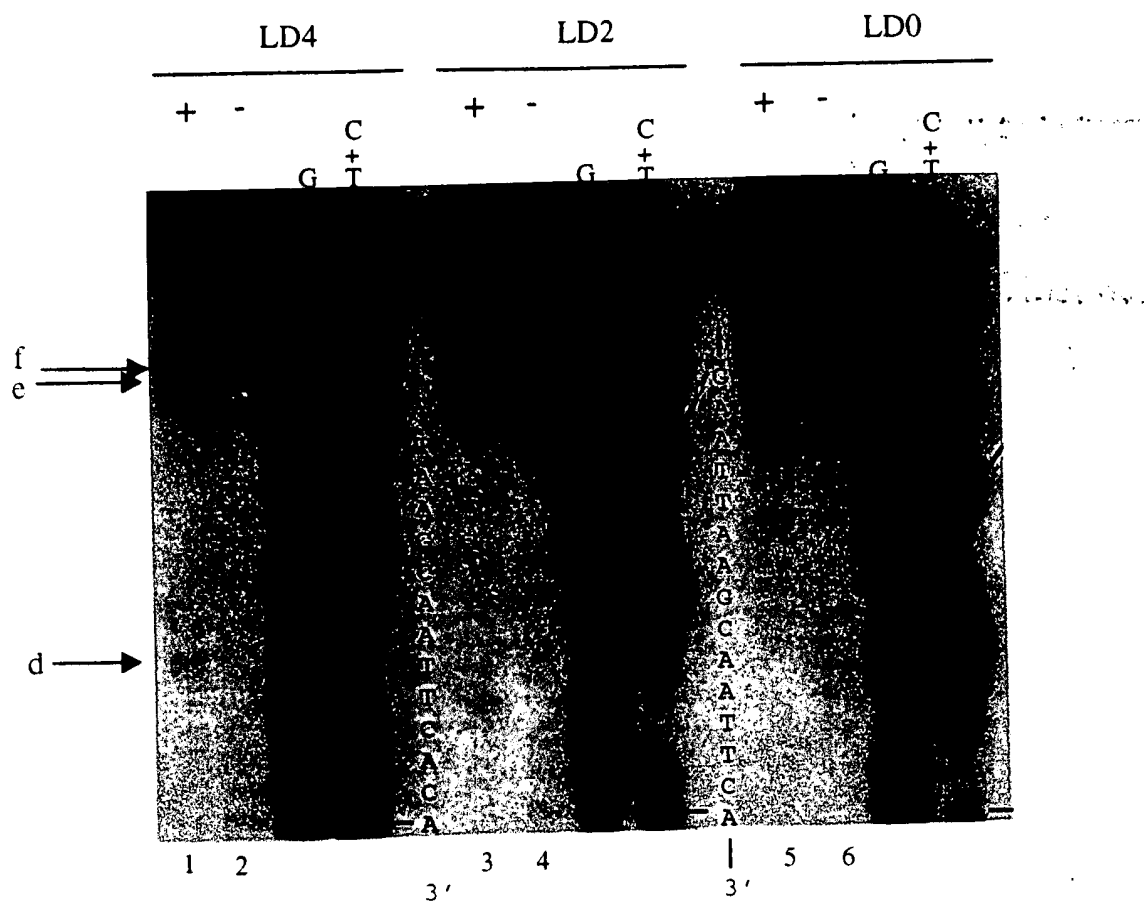


FIG 15R

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

U.S. Pat. No. 6,317,247,250
 Inventors: Doetsch et al.
 Filing Date: November 28, 2000

	Post Immune sera (µg)				Pre Immune sera (µg)				GA228-Uvelp			
-	40	80	120	160	-	-	-	-	-	-	-	-
-	-	-	-	40	80	120	160	-	160	160	160	160
+	+	+	+	+	+	+	+	+	+	+	+	+



^{CA}
 5' CACAGACTCCCTCTGTCATAGGTT TGAGTTTATATGGAA* 3'
 3' GTGCTGAGGGAGACAGTATCCAA-ACTCAAATATACCTT 5'

FIG. 16